

# Darell Liu Hermawan

Bekasi, Jawa Barat, Indonesia  
LinkedIn: [Darell Hermawan](#)

Email Address: iam2dael2@gmail.com  
Github: [Darell Hermawan](#)

Phone: (+62) 851-5849-9296  
Portfolio: [Darell Hermawan](#)

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## Technical Aptitudes

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**Programming:** Python, C++, HTML, CSS, SQL

**Data Science Packages:** Pandas, Numpy, Matplotlib, Scikit Learn, TensorFlow, Keras, Open-CV, NLTK, etc.

**Data Science & Miscellaneous Technologies:** ETL, Data Science Pipeline (cleansing, wrangling, visualiation, modelling, interpretation), Statistics, Applied Mathematics, Microsoft Excel, Power BI, Streamlit, Flask, Machine Learning, Web Scraping, API Integration, Pentaho Integration Tools, Computer Vision, Natural Language Processing, Time-series Data Prediction, Object-oriented Programming

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## Work Experience

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### PT. APM Armada Autoparts | Human Resources Intern | Cikarang, West Java | 2 months (Hybrid)

- Checked whether some employees' wages are fitted or not by performing statistical analysis.
- Built insights about which departments passing productivity standards using Full Time Employment Modelling.

### Home Credit Indonesia | Data Scientist Intern | Surabaya, East Java | 1 month (Remote)

- Predict whether any person's loan is accepted or rejected using concept of credit risk analysis.
- Built optimized model to give the most variability on data with significant features through feature engineering.

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## Project Experience

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### Classification of Breast Abnormalities on Mammography by CNN | May, 2023

- Project Goal: Applying CNN using only numpy package to classify breast abnormalities on mammography images, since CNN has a good performance on image data, yet breast cancer is hard to detect.
- Project Outcome: Our model gives the accuracy of 99.15%, but the research still needs improvement, such as data augmentation and defined filters.
- Project Methods: Study of literature, data collection, data preprocessing, CNN model building, and model evaluation.

### Maven Market Dashboard | July, 2023

- Project Goal: Transform raw data into professional-quality reports and dashboards to track KPIs, compare regional performance, analyze product-level trends, and identify high-value customers for Maven Market (dummy data).
- Project Methods: Problem formulation, data collection, data preprocessing, and report making.

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## Education

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### Universitas Airlangga | Surabaya, East Java | August, 2019 – June, 2023

- GPA: 3.83 / 4
- Scholarships or Awards: Awardee of Karya Salemba Empat's Scholarship, Finalist of National Scientific Paper Competition Loyalism 2022, 5<sup>th</sup> Runner Up of Southeast Asia Student Research Competition of Mathematics Education, etc.
- Clubs or Activities: Head of Research and Technology Division of Student Executive Board of Faculty.
- Relevant Coursework: Machine Learning, Data Mining, Artificial Neural Networks, Probability & Discrete Mathematics

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## About Me

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**Languages:** Indonesia, English (Intermediate)

**Interests:** Music (Drum & Guitar), Sports, Data science research paper

**Unique Experiences:** Sleeping while studying, perform heavy metal music on Christmas